

Title (en)
METHODS AND APPARATUS FOR OUTLIER DETECTION AND CORRECTION OF STRUCTURED LIGHT DEPTH MAPS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR AUSREISSERDETEKTION UND KORREKTUR VON STRUKTURIERTEN LICHTTIEFENKARTEN

Title (fr)
PROCÉDÉS ET APPAREIL DE DÉTECTION DE VALEURS ABERRANTES ET CORRECTION DE CARTES DE PROFONDEUR EN LUMIÈRE STRUCTURÉE

Publication
EP 3394827 A1 20181031 (EN)

Application
EP 16819747 A 20161130

Priority
• US 201562387377 P 20151222
• US 201615069751 A 20160314
• US 2016064119 W 20161130

Abstract (en)
[origin: US2017178332A1] Systems and methods for correcting errors in a depth map generated by a structured light system are disclosed. In one aspect, a method includes dividing a depth map into segments and calculating a density distribution of the depth values for each segment. The method includes detecting error (or "outlier") values by determining the depth values that fall outside of a range of depth values, the range of depth values representative of the highest density depth values for a given segment. The method includes detecting error values in the depth map as a whole based on the density distribution values for each segment.

IPC 8 full level
G06T 5/00 (2006.01); **G06T 7/521** (2017.01)

CPC (source: EP KR US)
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Citation (search report)
See references of WO 2017112375A1

Designated contracting state (EPC)
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US 201615069751 A 20160314; BR 112018012574 A 20161130; CN 201680072006 A 20161130; EP 16819747 A 20161130; JP 2018532358 A 20161130; KR 20187017584 A 20161130; US 2016064119 W 20161130